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1 [Digital libraries and cyberinfrastructure track: creating information representations for the h](#)



[Finding a catalog: generating analytical catalog records from well-structured digital texts](#)

David Mimno, Alison Jones, Gregory Crane

June 2005 **Proceedings of the 5th ACM/IEEE-CS joint conference on Digital libraries****Publisher:** ACM PressFull text available: [pdf\(210.23 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

One of the criticisms library users often make of catalogs is that they rarely include information bibliographic level. It is generally impossible to search a catalog for the titles and subjects of pa volumes. There has been no way to add this information to catalog records without exponential workload of catalogers. At the same time, well-structured full-text XML transcriptions of printed becoming increasingly available. This paper descri ...

Keywords: analytical cataloging, information extraction, library automation

2 [Establishing the semantic web 11: On deep annotation](#)



Siegfried Handschuh, Steffen Staab, Raphael Volz

May 2003 **Proceedings of the 12th international conference on World Wide Web****Publisher:** ACM PressFull text available: [pdf\(389.51 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#), [index](#)

The success of the Semantic Web crucially depends on the easy creation, integration and use of this purpose, we consider an integration scenario that defies core assumptions of current metad methods. We describe a framework of metadata creation when web pages are generated from a database owner is cooperatively participating in the Semantic Web. This leads us to the definitic mapping rules by manual semantic annotation and the usag ...

Keywords: annotation, information integration, mapping and merging, metadata, semantic we

3 [Contributed articles: Resource description framework: metadata and its applications](#)



K. Selçuk Candan, Huan Liu, Reshma Suvana

July 2001 **ACM SIGKDD Explorations Newsletter**, Volume 3 Issue 1**Publisher:** ACM PressFull text available: [pdf\(1.02 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#)

Universality, the property of the Web that makes it the largest data and information source in tl property behind the lack of a uniform organization scheme that would allow easy access to data

semantic web, wherein different applications and Web sites can exchange information and hence information to their full potential, requires the information about Web resources to be represented in a detailed and structured manner. Resource Description Framework (RDF), Web, XML, metadata, semantic web

Keywords: Resource Description Framework (RDF), Web, XML, metadata, semantic web

4 Document authoring, markup and manipulation 2: Enhancing composite digital documents standoff markup

Peter L. Thomas, David F. Brailsford

November 2005 **Proceedings of the 2005 ACM symposium on Document engineering DocEng**

Publisher: ACM Press

Full text available:  pdf(695.86 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Document representations can rapidly become unwieldy if they try to encapsulate all possible details ranging from abstract structure to detailed rendering and layout. We present a composite document wherein an XML-based document representation is linked via a 'shadow tree' of bi-directional pointers to a representation of the same document. Using a two-window viewer any material selected in the graphical representation is linked back to the corresponding material in the XML, and vice versa ...

Keywords: MathML, MusicXML, PDF, XBL, XML, composite documents, standoff markup

5 FieldWise: a mobile knowledge management architecture

Henrik Fagrell, Kerstin Forsberg, Johan Sanneblad

December 2000 **Proceedings of the 2000 ACM conference on Computer supported cooperative work**

Publisher: ACM Press

Full text available:  pdf(470.03 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

The paper presents results of a research project that has aimed at developing a knowledge management architecture for mobile work domains. The architecture developed, called FieldWise, was based on the experiences of several organisations and feedback from users of prototype systems. This paper describes the empirical requirements of FieldWise, how these have been realised in the architecture, and how the architecture is implemented in the news journalism domain. FieldWise adds to the existing ...

Keywords: hand-held devices, knowledge management, mobile CSCW, organisational memory

6 XML processing: Parsing concurrent XML

Ionut E. Iacob, Alex Dekhtyar

November 2004 **Proceedings of the 6th annual ACM international workshop on Web information management**

Publisher: ACM Press

Full text available:  pdf(242.39 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Concurrent markup hierarchies appear often in document-centric XML documents, as a result of elements having overlapping scopes. They require a significantly different approach to management and maintenance. Management of XML documents composed of concurrent markup has been mostly the domain of the document processing community and has attracted attention of computer scientists only recently. We discuss the architecture of an XML parser for concurrent XML. This parser uses ...

Keywords: DOM, GODDAG, concurrent XML, overlapping markup

7 A composable framework for secure multi-modal access to internet services from Post-PC

Steven J. Ross, Jason L. Hill, Michael Y. Chen, Anthony D. Joseph, David E. Culler, Eric A. Brewer

October 2002 **Mobile Networks and Applications**, Volume 7 Issue 5

Publisher: Kluwer Academic Publishers

Full text available:  pdf(340.33 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [index](#)

The Post-PC revolution is bringing information access to a wide range of devices beyond the desktop, public kiosks, and mobile devices like cellular telephones, PDAs, and voice based vehicle telematics. Existing deployed Internet services are geared toward the secure rich interface of private desktops. We propose the use of an infrastructure-based secure proxy architecture to bridge the gap between Post-PC devices and the requirements of Internet services ...

Keywords: internet, middleware, post-PC, security, transcoding

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